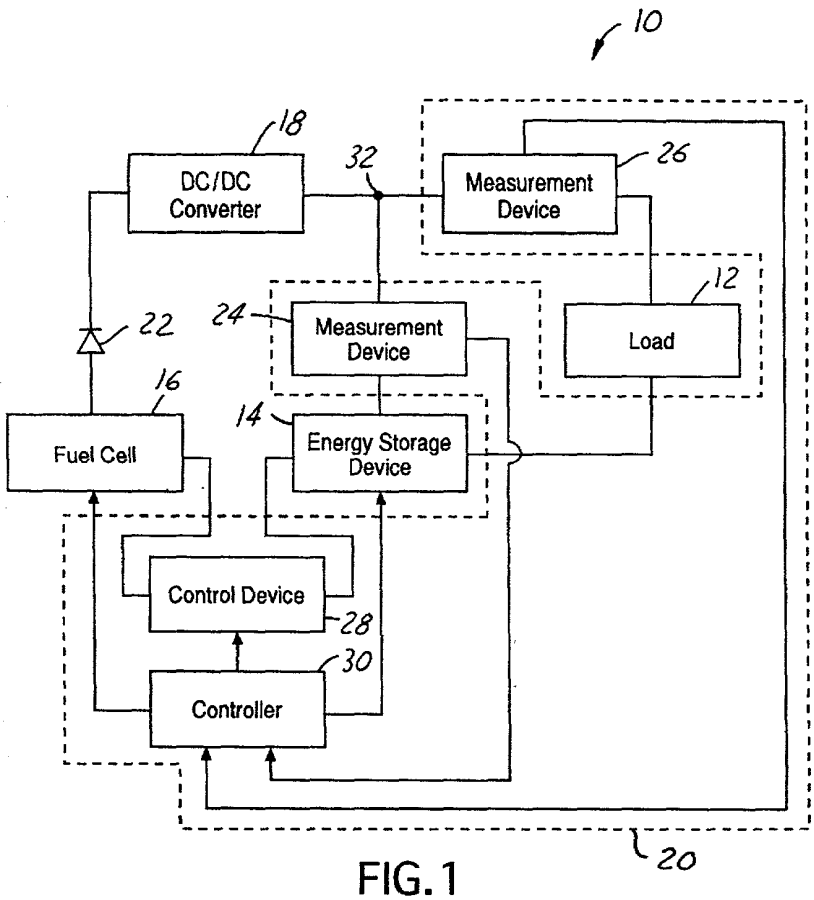
10
18
DC/DC Converter
32
Measurement Device
26
12
24
Measurement Device
Load
22
16
14
Fuel Cell
Energy Storage Device
Control Device
28
30
Controller
20

FIG. 1

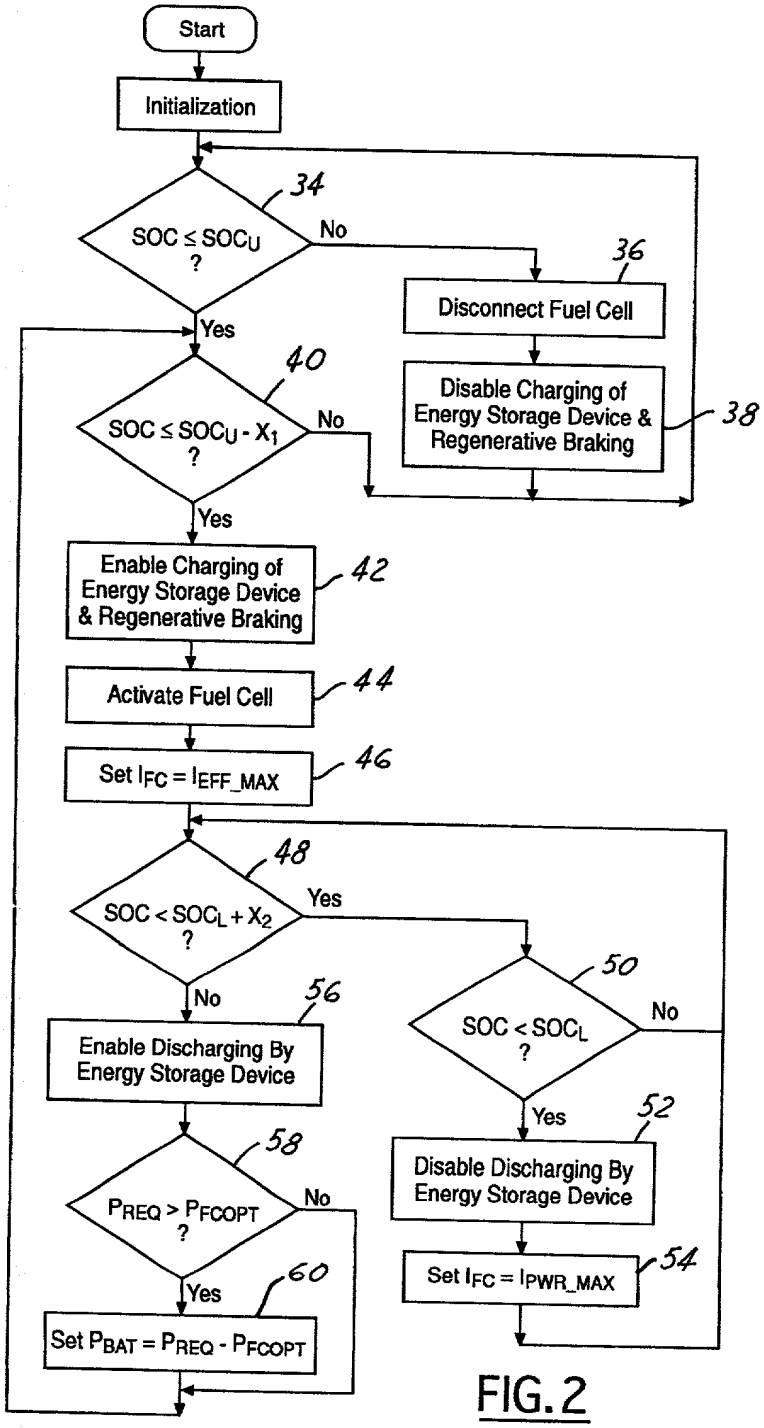
Start
Initialization
34
SOC ≤ SOCU ?
No
36
Disconnect Fuel Cell
Yes
40
SOC ≤ SOCU - X1 ?
No
Disable Charging of Energy Storage Device & Regenerative Braking
38
Yes
Enable Charging of Energy Storage Device & Regenerative Braking
42
Activate Fuel Cell
44
Set IFC = IEFF_MAX
46
48
SOC < SOCL + X2 ?
Yes
No
56
Enable Discharging By Energy Storage Device
50
SOC < SOCL ?
No
Yes
52
Disable Discharging By Energy Storage Device
58
PREQ > PFCOPT ?
No
Yes
60
Set PBAT = PREQ - PFCOPT
Set IFC = IPWR_MAX
54

FIG. 2